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FIG. 1

$a_7$	$a_6$	$a_5$	$a_4$	$a_3$	$a_2$	$a_1$	$a_0$
$b_7$	$b_6$	$b_5$	$b_4$	$b_3$	$b_2$	$b_1$	$b_0$
$a_7b_0$	$a_6b_0$	$a_5b_0$	$a_4b_0$	$a_3b_0$	$a_2b_0$	$a_1b_0$	$a_0b_0$
$a_7b_1$	$a_6b_1$	$a_5b_1$	$a_4b_1$	$a_3b_1$	$a_2b_1$	$a_1b_1$	$a_0b_1$
$a_7b_2$	$a_6b_2$	$a_5b_2$	$a_4b_2$	$a_3b_2$	$a_2b_2$	$a_1b_2$	$a_0b_2$
$a_7b_3$	$a_6b_3$	$a_5b_3$	$a_4b_3$	$a_3b_3$	$a_2b_3$	$a_1b_3$	$a_0b_3$
$a_7b_4$	$a_6b_4$	$a_5b_4$	$a_4b_4$	$a_3b_4$	$a_2b_4$	$a_1b_4$	$a_0b_4$
$a_7b_5$	$a_6b_5$	$a_5b_5$	$a_4b_5$	$a_3b_5$	$a_2b_5$	$a_1b_5$	$a_0b_5$
$a_7b_6$	$a_6b_6$	$a_5b_6$	$a_4b_6$	$a_3b_6$	$a_2b_6$	$a_1b_6$	$a_0b_6$
$a_7b_7$	$a_6b_7$	$a_5b_7$	$a_4b_7$	$a_3b_7$	$a_2b_7$	$a_1b_7$	$a_0b_7$
$d_{15}$	$d_{14}$	$d_{13}$	$d_{12}$	$d_{11}$	$d_{10}$	$d_9$	$d_8$
$d_7$	$d_6$	$d_5$	$d_4$	$d_3$	$d_2$	$d_1$	$d_0$

FIG. 2

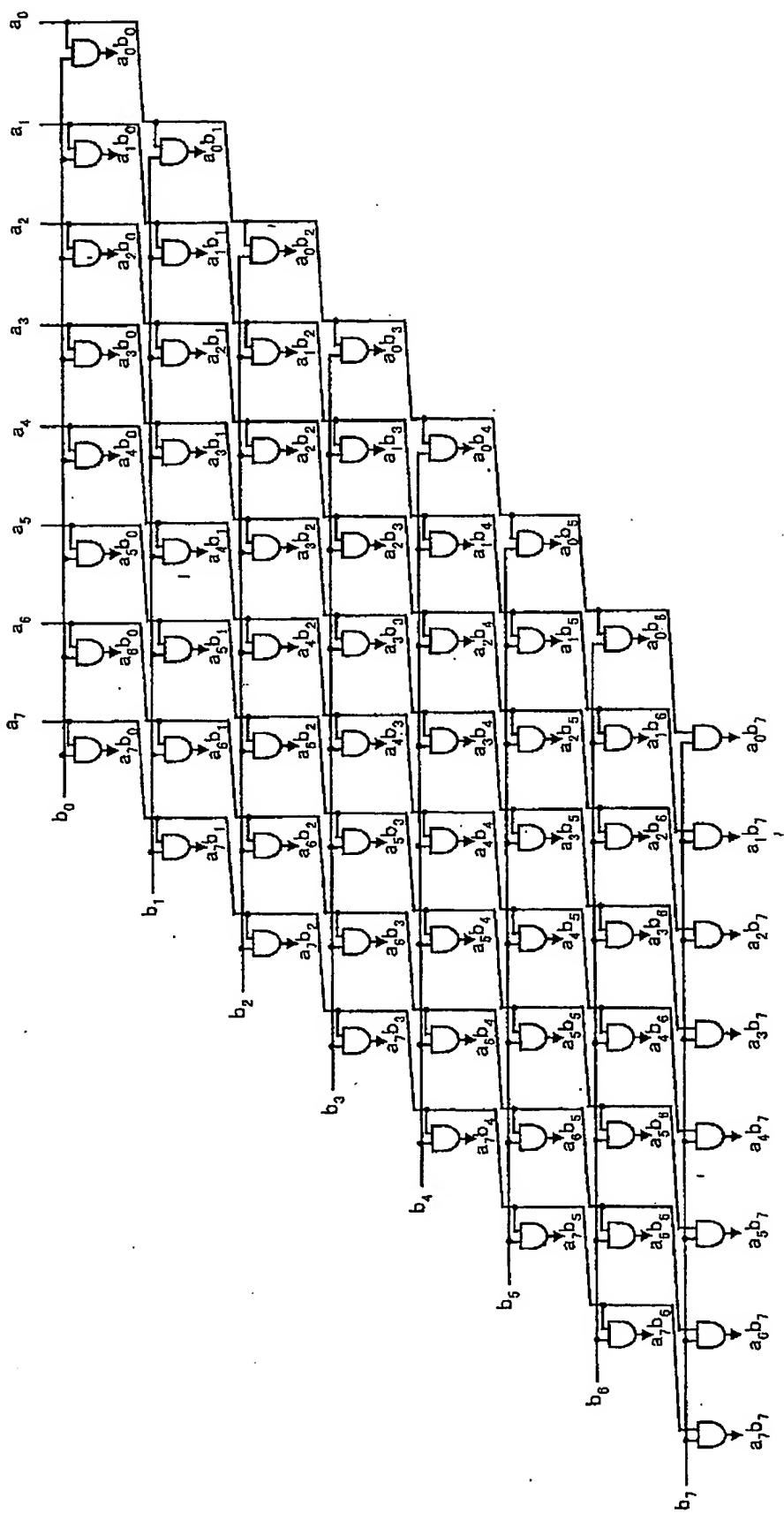


FIG. 3

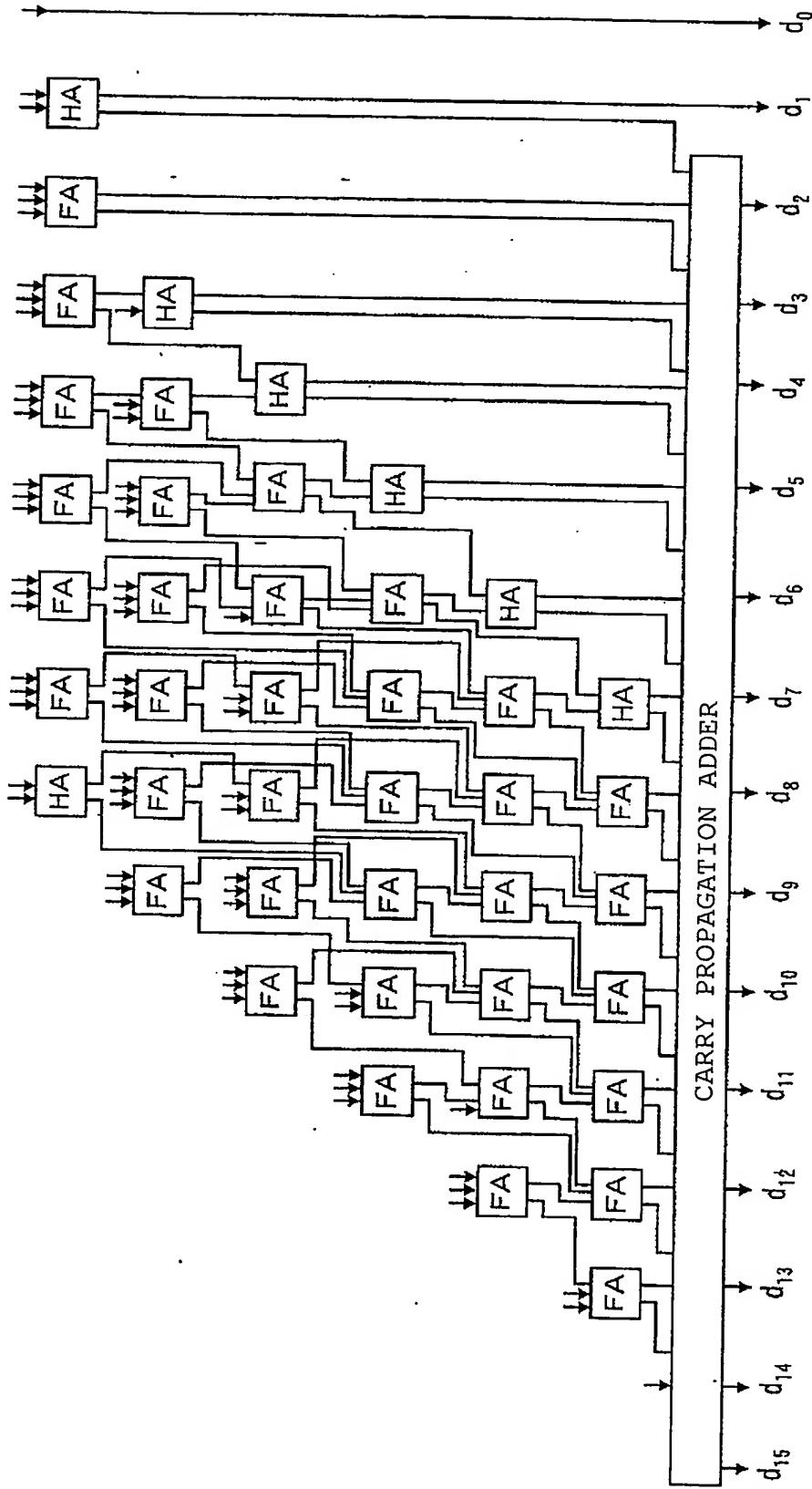


FIG. 4

## HALF ADDER

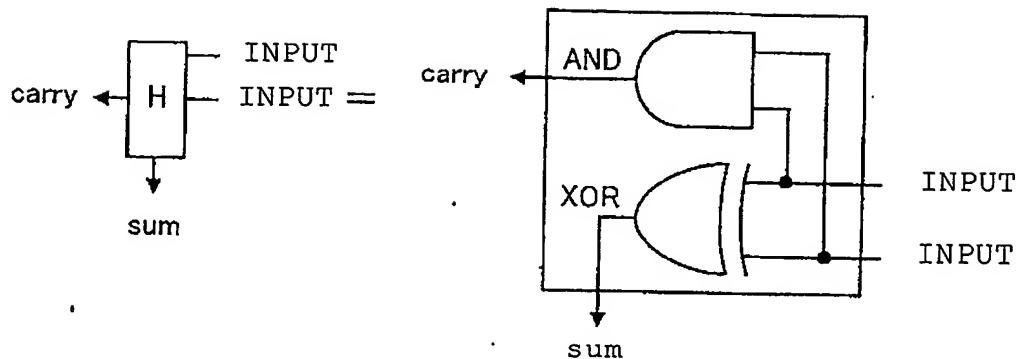


FIG. 5

## FULL ADDER

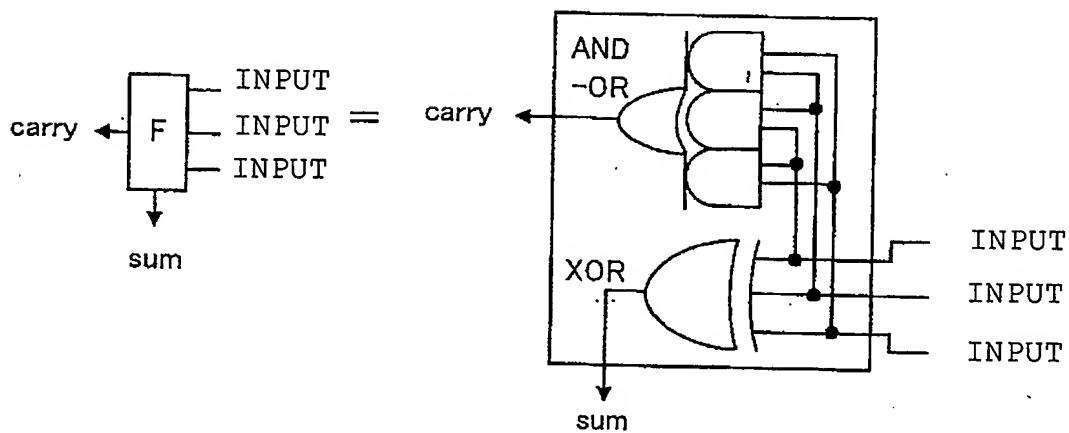


FIG. 6

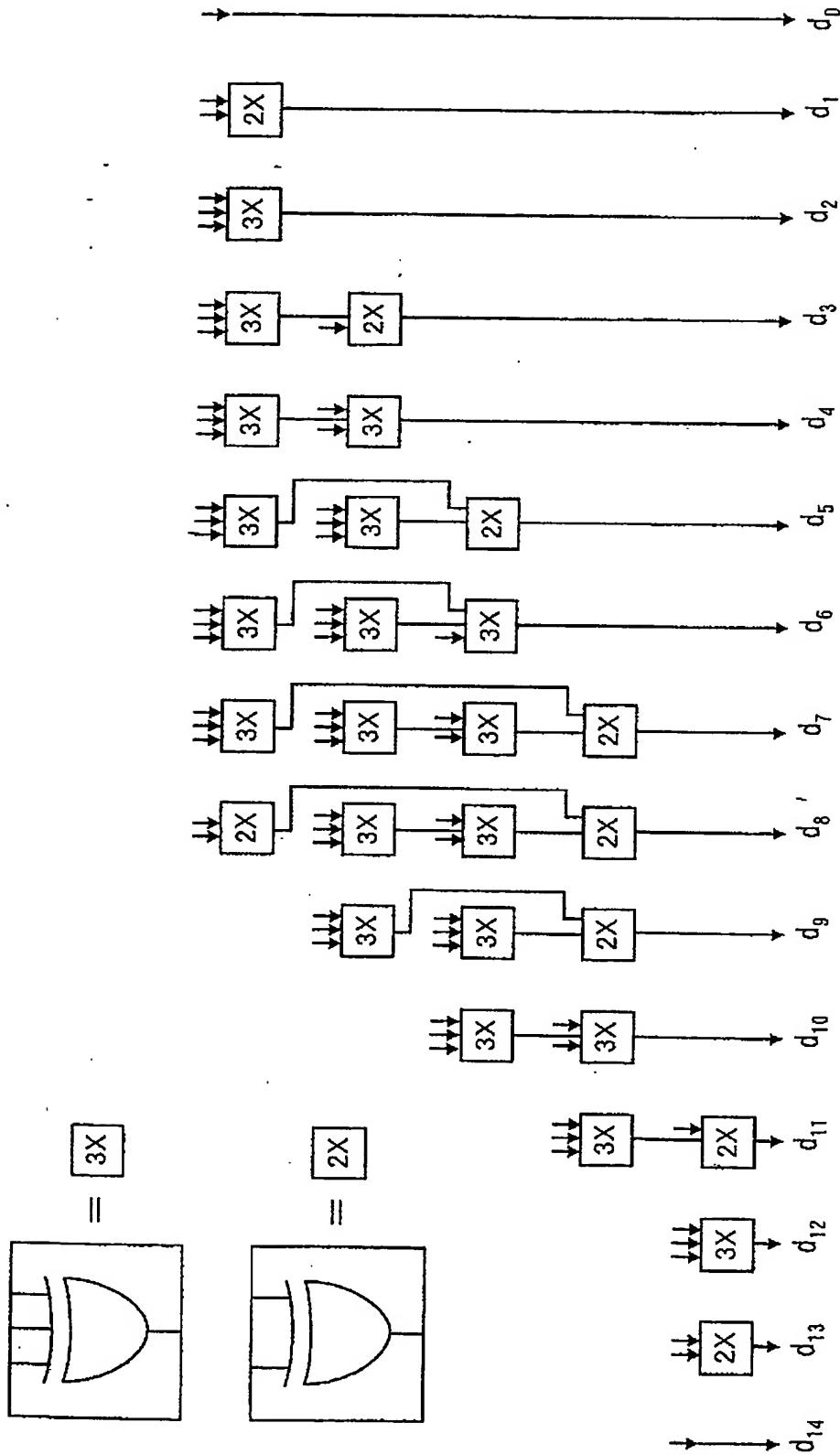


FIG. 7

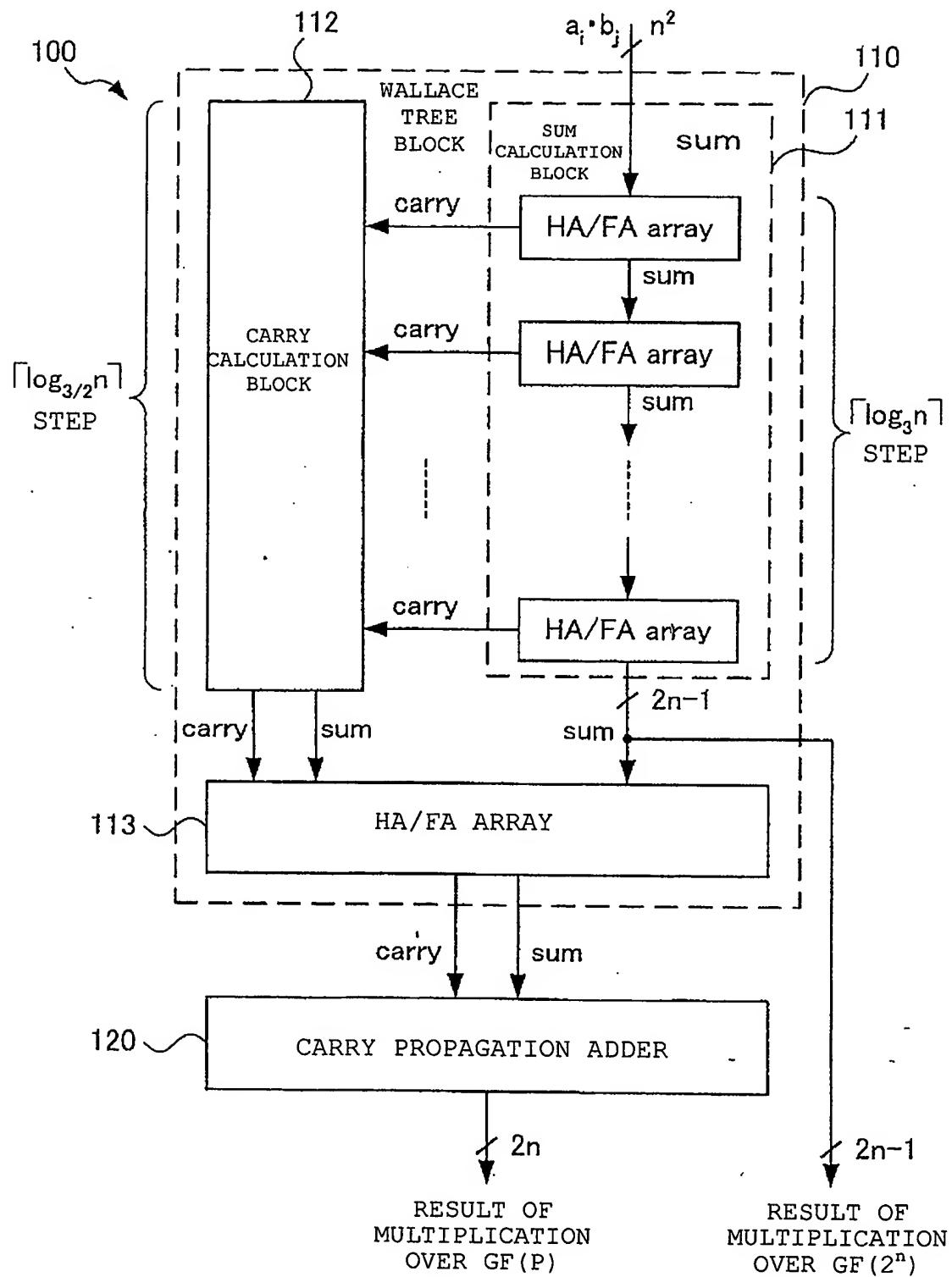


FIG. 8

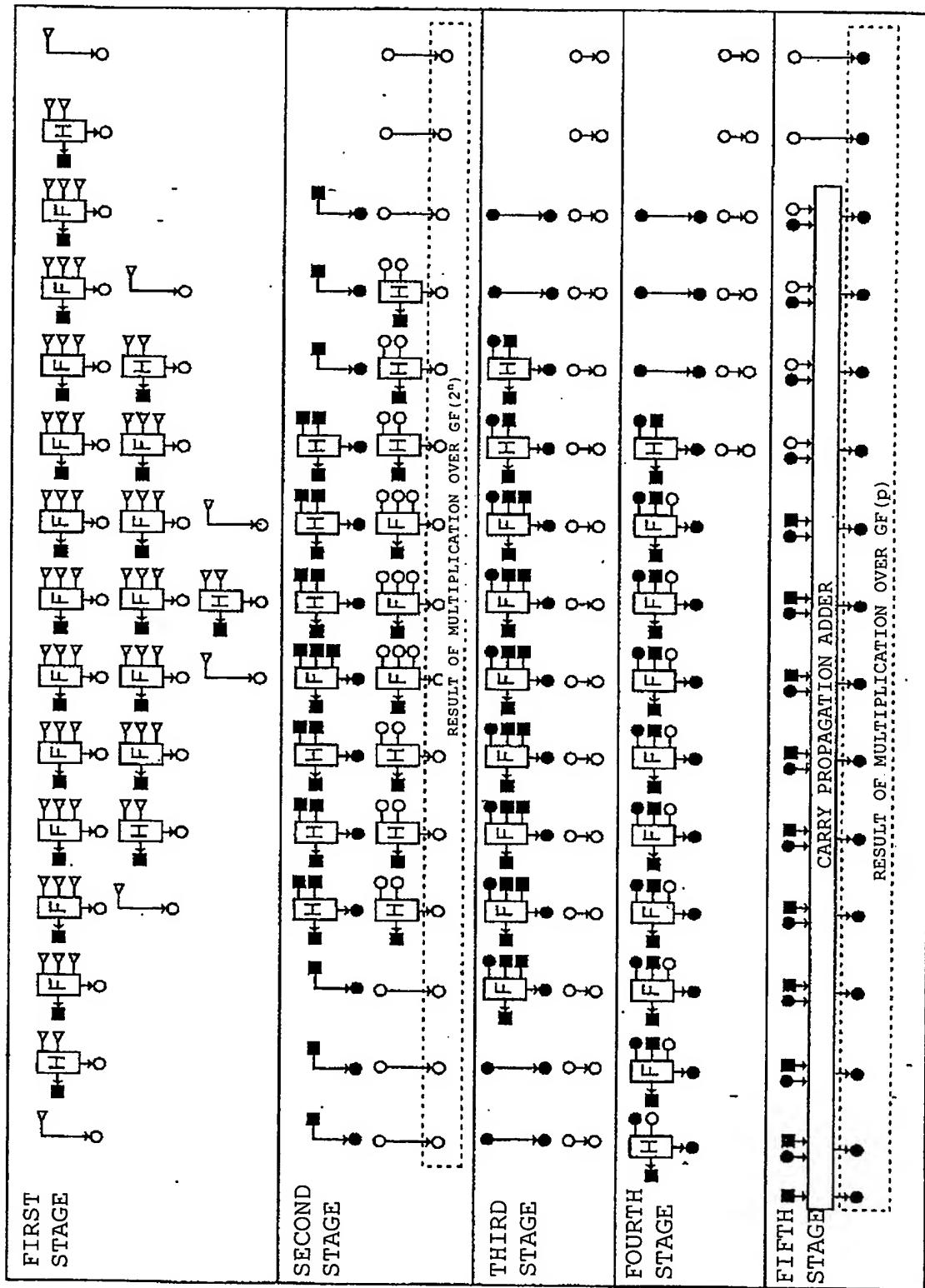
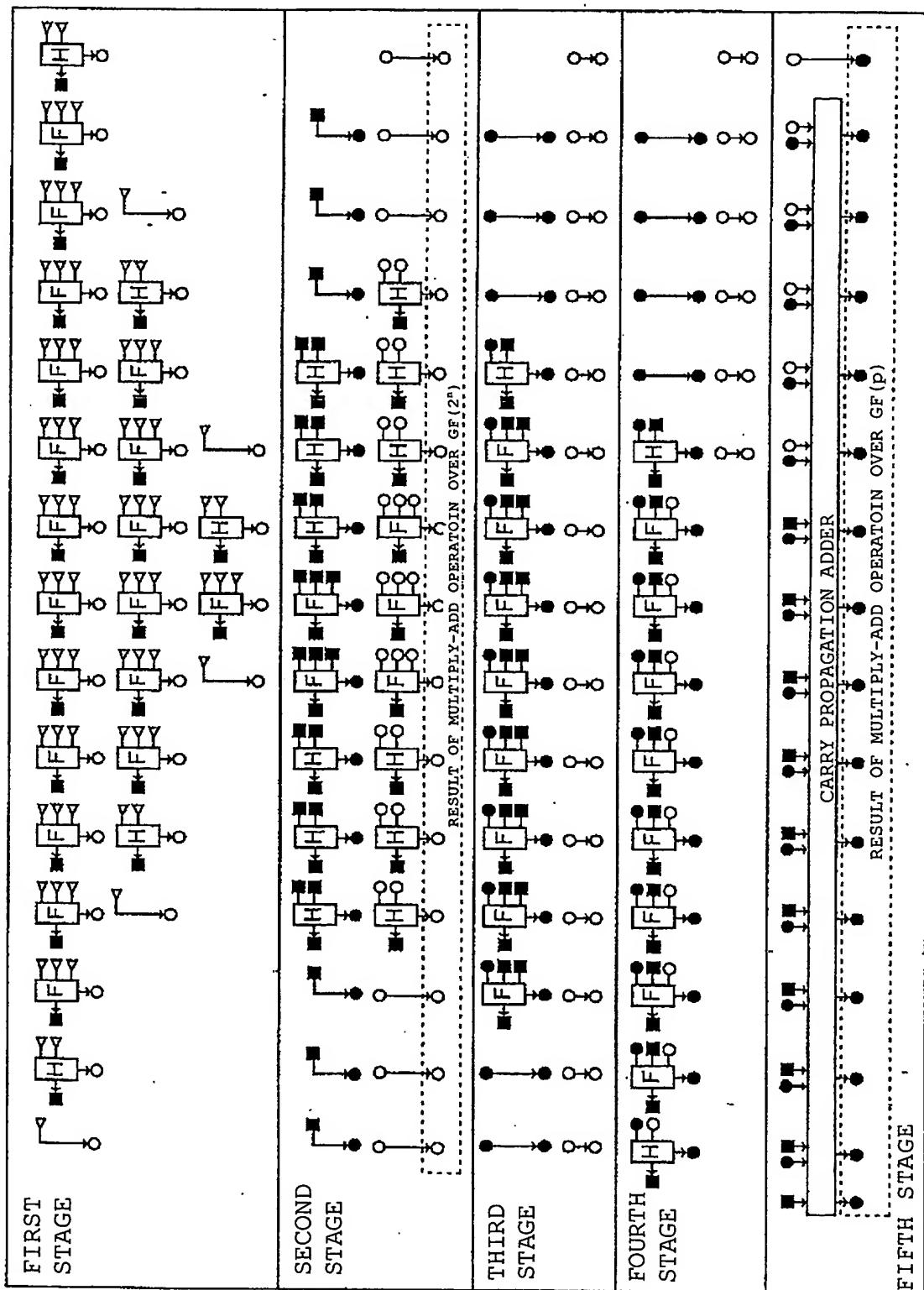


FIG. 9

$\times$	$a_7$	$a_6$	$a_5$	$a_4$	$a_3$	$a_2$	$a_1$	$a_0$
$+$	$b_7$	$b_6$	$b_5$	$b_4$	$b_3$	$b_2$	$b_1$	$b_0$
	$c_7$	$c_6$	$c_5$	$c_4$	$c_3$	$c_2$	$c_1$	$c_0$
	$a_7b_1$	$a_6b_1$	$a_5b_1$	$a_4b_1$	$a_3b_1$	$a_2b_1$	$a_1b_1$	$a_0b_1$
	$a_7b_2$	$a_6b_2$	$a_5b_2$	$a_4b_2$	$a_3b_2$	$a_2b_2$	$a_1b_2$	$a_0b_2$
	$a_7b_3$	$a_6b_3$	$a_5b_3$	$a_4b_3$	$a_3b_3$	$a_2b_3$	$a_1b_3$	$a_0b_3$
	$a_7b_4$	$a_6b_4$	$a_5b_4$	$a_4b_4$	$a_3b_4$	$a_2b_4$	$a_1b_4$	$a_0b_4$
	$a_7b_5$	$a_6b_5$	$a_5b_5$	$a_4b_5$	$a_3b_5$	$a_2b_5$	$a_1b_5$	$a_0b_5$
	$a_7b_6$	$a_6b_6$	$a_5b_6$	$a_4b_6$	$a_3b_6$	$a_2b_6$	$a_1b_6$	$a_0b_6$
	$a_7b_7$	$a_6b_7$	$a_5b_7$	$a_4b_7$	$a_3b_7$	$a_2b_7$	$a_1b_7$	$a_0b_7$
	$d_{15}$	$d_{14}$	$d_{13}$	$d_{12}$	$d_{11}$	$d_{10}$	$d_9$	$d_8$
	$d_7$	$d_6$	$d_5$	$d_4$	$d_3$	$d_2$	$d_1$	$d_0$

FIG. 10



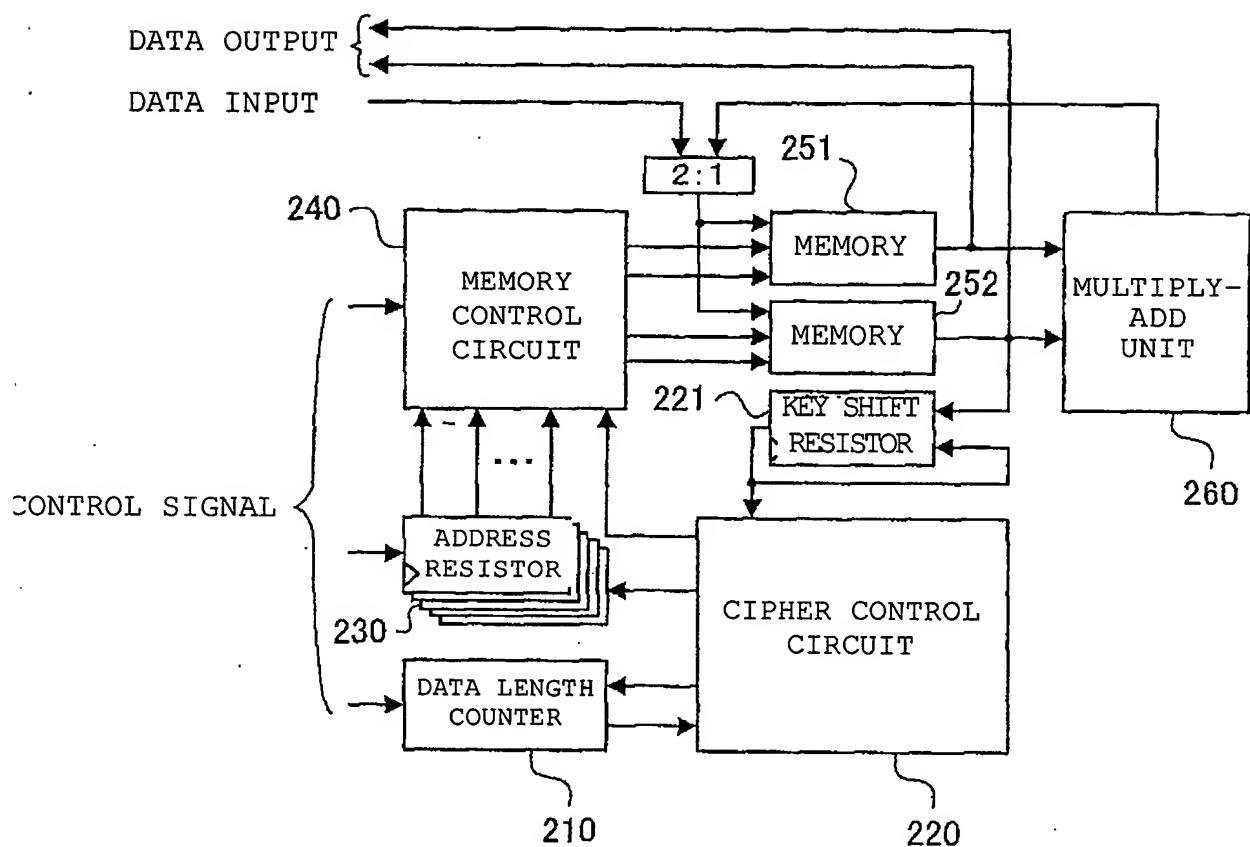


FIG. 12

